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Electron emission characteristics of DLC films

Electron emission characteristics of DLC films deposited by pulsed laser deposition method are investigated. Emission characteristics show correlation with surface morphologies of deposited films. Smooth surfaces require higher voltage for electron emission than rough surfaces. This is considered as defects of rough films induce higher local field. Also electron transport of DLC films associated with electron emission characteristics is investigated .

Young Kyu Hong, Ju-Jin Kim, Chan Park, Jin Seung Kim, and Jae Ki Kim*

School of Physics and Technology, Chonbuk National University
Chonju 561-756, Korea

*Agency for Defence Development, P.O. Box 35-5, Taejon 305-600, Korea